

A Case Report of Skeletal 3 Cross Bite Treated with E-arch Technique

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The patient was a boy who had had anterior cross bite from deciduous dentition. He was nine years and five months of age at the first clinical examination. We diagnosed the patient as skeletal 3 crossbite because of the maxillary retardation by cephalometric analysis.

Three months after leveling of anterior teeth, the E-arch (external-expansion arch) technique had been applied. The ANB angle was changed by two-year treatment from -2.5 degrees to 1 degree. The maxillary incisor angle increased by 8 degrees at this period.

Both the Ba-N-A angle and the McNamara line-A increased in number, and we concluded that the change was caused by E-arch technique.

It is necessary to watch the adolescent growth of the patient in near future.

Key words : E-arch technique, external-expansion arch, facial mask, maxillary retardation